## DNA Sequence of FUS01/02

ATGGAAAAAC	AAAATATTGC	GGTTATACTT	GCGCGCCAAA	ACTCCAAAGG
ATTGCCATTA	AAAAATCTCC	GGAAAATGAA	TGGCATATCA	TTACTTGGTC
ATACAATTAA	TGCTGCTATA	TCATCAAAGT	GTTTTGACCG	CATAATTGTT
TCGACTGATG	GCGGGTTAAT	TGCAGAAGAA	GCTAAAAATT	TCGGTGTCGA
AGTCGTCCTA	CGCCCTGCAG	AGCTGGCCTC	CGATACAGCC	AGCTCTATTT
CAGGTGTAAT	ACATGCTTTA	GAAACAATTG	GCAGTAATTC	CGGCACAGTA
ACCCTATTAC	AACCAACCAG	TCCATTACGC	ACAGGGGCTC	ATATTCGTGA
AGCTTTTTCT	CTATTTGATG	AGAAAATAAA	AGGATCCGTT	GTCTCTGCAT
GCCCAATGGA	GCATCATCCA	CTAAAAACCC	TGCTTCAAAT	CAATAATGGC
GAATATGCCC	CCATGCGCCA	TCTAAGCGAT	TTGGAGCAGC	CTCGCCAACA
ATTACCTCAG	GCATTTAGGC	CTAATGGTGC	AATTTACATT	AATGATACTG
CTTCACTAAT	TGCAAATAAT	TGTTTTTTA	TCGCTCCAAC	CAAACTTTAT
ATTATGTCTC	ATCAAGACTC	TATCGATATT	GATACTGAGC	TTGATTTACA
ACAGGCAGAA	AACATTCTTÄ	AŢCACAAGGA		GlyIleLeuS GGAATTCTGT
erHisGlyIle				
ECORI CGCATGGAAT	mamacacamac			
	<u>10</u> 1GGGC11G	AAAAAGGCTT	GTTTGACCGT	GTTGTGTTTG
ATTGTTTTTT	GTTTCGGGAT			
		ATTTTATACA	TTTGACCGGG	TAAATCATGG
GGAAAGGAAT	GTTTCGGGAT	ATTTTATACA TGCTGAAGGA	TTTGACCGGG CAAACTCTTC	TAAATCATGG
GGAAAGGAAT GGGAACCGGT	GTTTCGGGAT GCGGTTTCCC	ATTTTATACA TGCTGAAGGA TTCTGCTATA	TTTGACCGGG CAAACTCTTC CCATATTGCA	TAAATCATGG AATGAAGAGG GATGAAGGTG
GGAAAGGAAT GGGAACCGGT GCGGAAAGGA	GTTTCGGGAT GCGGTTTCCC CAATCTGATT	ATTTTATACA TGCTGAAGGA TTCTGCTATA GCATCCGGGG	TTTGACCGGG CAAACTCTTC CCATATTGCA GAGCGGTTTT	TAAATCATGG AATGAAGAGG GATGAAGGTG ATGTGGTGCT
GGAAAGGAAT GGGAAACGGT GCGGAAAGGA GATGTCTGAA	GTTTCGGGAT GCGGTTTCCC CAATCTGATT TTATGGCGCA	ATTTTATACA TGCTGAAGGA TTCTGCTATA GCATCCGGGG AAAAATACGA	TTTGACCGGG CAAACTCTTC CCATATTGCA GAGCGGTTTT TTATTATTTC	TAAATCATGG AATGAAGAGG GATGAAGGTG ATGTGGTGCT AAGCAGATAA
GGAAAGGAAT GGGAAAGGA GATGTCTGAA AGGATAAGGC	GTTTCGGGAT GCGGTTTCCC CAATCTGATT TTATGGCGCA AACAGGAATG	ATTTTATACA TGCTGAAGGA TTCTGCTATA GCATCCGGGG AAAAATACGA TATTTTTCC	TTTGACCGGG CAAACTCTTC CCATATTGCA GAGCGGTTTT TTATTATTTC ACCTGCCCTA	TAAATCATGG AATGAAGAGG GATGAAGGTG ATGTGGTGCT AAGCAGATAA CGGTTTGAAC
GGAAAGGAAT GGGAAAGGA GATGTCTGAA AGGATAAGGC AAATCGTTTA	GTTTCGGGAT GCGGTTTCCC CAATCTGATT TTATGGCGCA AACAGGAATG GGAGCGGGCG	ATTTTATACA TGCTGAAGGA TTCTGCTATA GCATCCGGGG AAAAATACGA TATTTTTTCC GACGATGGCG	TTTGACCGGG CAAACTCTTC CCATATTGCA GAGCGGTTTT TTATTATTTC ACCTGCCCTA GAGCTGAAGG	TAAATCATGG AATGAAGATGG GATGAAGGTG ATGTGGTGCT AAGCAGATAA CGGTTTGAAC TAAAGTCGAT
GGAAAGGAAT GGGAAAGGA GATGTCTGAA AGGATAAGGC AAATCGTTTA GCTGCTGCCG	GTTTCGGGAT GCGGTTTCCC CAATCTGATT TTATGGCGCA AACAGGAATG GGAGCGGGCG ATTTCATTCC	ATTTTATACA TGCTGAAGGA TTCTGCTATA GCATCCGGGG AAAAATACGA TATTTTTTCC GACGATGGCG GGATTTATTT	TTTGACCGGG CAAACTCTTC CCATATTGCA GAGCGGTTTT TTATTATTTC ACCTGCCCTA GAGCTGAAGG GGCAAGTTTG	TAAATCATGG AATGAAGAGG GATGAAGGTG ATGTGGTGCT AAGCAGATAA CGGTTTGAAC TAAAGTCGAT GAAAAAGTCA
GGAAAGGAAT GGGAAAGGA GATGTCTGAA AGGATAAGGC AAATCGTTTA GCTGCTGCCG GCATTGCCGC	GTTTCGGGAT GCGGTTTCCC CAATCTGATT TTATGGCGCA AACAGGAATG GGAGCGGGCG ATTTCATTCC AAAGTCAAGC	ATTTATACA TGCTGAAGGA TTCTGCTATA GCATCCGGGG AAAAATACGA TATTTTTCC GACGATGGCG GGATTTATTT ACTTACCCGG	TTTGACCGGG CAAACTCTTC CCATATTGCA GAGCGGTTTT TTATTATTTC ACCTGCCCTA GAGCTGAAGG GGCAAGTTTG ATGCGGAAAT	TAAATCATGG AATGAAGAGG GATGAAGGTG ATGTGGTGCT AAGCAGATAA CGGTTTGAAC TAAAGTCGAT GAAAAAGTCA CAAAACCTTT
GGAAAGGAAT GGGAAACGGT GCGGAAAGGA GATGTCTGAA AGGATAAGGC AAATCGTTTA GCTGCTGCCG GCATTGCCGC GACGACGGGA	GTTTCGGGAT GCGGTTTCCC CAATCTGATT TTATGGCGCA AACAGGAATG GGAGCGGGCG ATTTCATTCC AAAGTCAAGC CTTTTTGAGC	ATTTATACA TGCTGAAGGA TTCTGCTATA GCATCCGGGG AAAAATACGA TATTTTTCC GACGATGGCG GGATTTATTT ACTTACCCGG AATTCAAAGC	TTTGACCGGG CAAACTCTTC CCATATTGCA GAGCGGTTTT TTATTATTTC ACCTGCCCTA GAGCTGAAGG GGCAAGTTTG ATGCGGAAAT AGCAGCTATT	TAAATCATGG AATGAAGAGG GATGAAGGTG ATGTGGTGCT AAGCAGATAA CGGTTTGAAC TAAAGTCGAT GAAAAAGTCA CAAAACCTTT TGGGCGATGA

# **EXHIBIT B**

ATATTCAAGG GTTTGAAAAA CATTATGGAC GACGGCCGCC GCAAGATGAC TTACCTGCCG CTGTTCGATG CGTCCGAACT GAAGGCGGGG GACGAAACGG GCGGCACGGT GCGGATACTT TTGGGTTCGC CCGACAAGGA GATGAAGGAA ATTTCGGAAA AGGCGGCAAA AAACTTCAAC ATACAATATG TCGCACCGCA CCCCGCCAA ACCTACGGGC TTTCCGGCGT AACCACATTA AATTCGCCCT ATGTCATCGA AGACTATATT TTGCGCGAGA TTAAGAAAAA CCCGCATACG AGGTATGAAA TTTATACCTT TTTCAGCGGC GCGGCGTTGA CGATGAAGGA TTTTCCCAAT GTGCACGTTT ACGCATTGAA ACCGGCTTCC CTTCCGGAAG ATTATTGGCT CAAGCCGGTG TATGCCCTGT TTACCCAATC CGGCATCCCG C-Myc Peptide tag sequence

ATTTTGACAT TTGACGATAA AAATGAACAA AAACTGATCA GCGAAGAAGA

His 6 Tag CCTGAACCAT CACCACCATC ACCACTAATG A

#### DNA Sequence of FUS01/04

ATGGAAAAAC AAAATATTGC GGTTATACTT GCGCGCCAAA ACTCCAAAGG ATTGCCATTA AAAAATCTCC GGAAAATGAA TGGCATATCA TTACTTGGTC ATACAATTAA TGCTGCTATA TCATCAAAGT GTTTTGACCG CATAATTGTT TCGACTGATG GCGGGTTAAT TGCAGAAGAA GCTAAAAATT TCGGTGTCGA AGTCGTCCTA CGCCCTGCAG AGCTGGCCTC CGATACAGCC AGCTCTATTT CAGGTGTAAT ACATGCTTTA GAAACAATTG GCAGTAATTC CGGCACAGTA ACCCTATTAC AACCAACCAG TCCATTACGC ACAGGGGCTC ATATTCGTGA AGCTTTTCT CTATTGATG AGAAAATAAA AGGATCCGTT GTCTCTGCAT GCCCAATGGA GCATCATCCA CTAAAAACCC TGCTTCAAAT CAATAATGGC GAATATGCCC CCATGCGCCA TCTAAGCGAT TTGGAGCAGC CTCGCCAACA ATTACCTCAG GCATTTAGGC CTAATGGTGC AATTTACATT AATGATACTG CTTCACTAAT TGCAAATAAT TGTTTTTTTA TCGCTCCAAC CAAACTTTAT ATTATGTCTC ATCAAGACTC TATCGATATT GATACTGAGC TTGATTTACA GlyGly GlyIleLeuS ACAGGCAGAA AACATTCTTA ATCACAAGGA AAGCGGTGGC GGAATTCTGT

erGlyIle **EcoRI** CGGGAAT TCTGGGCTTG AAAAAGGCTT GTTTGACCGT GTTGTGTTTG ATTGTTTTTT GTTTCGGGAT ATTTTATACA TTTGACCGGG TAAATCATGG GGAAAGGAAT GCGGTTTCCC TGCTGAAGGA CAAACTCTTC AATGAAGAGG GGGAACCGGT CAATCTGATT TTCTGCTATA CCATATTGCA GATGAAGGTG GCGGAAAGGA TTATGGCGCA GCATCCGGGG GAGCGGTTTT ATGTGGTGCT GATGTCTGAA AACAGGAATG AAAAATACGA TTATTATTTC AAGCAGATAA AGGATAAGGC GGAGCGGCG TATTTTTCC ACCTGCCCTA CGGTTTGAAC AAATCGTTTA ATTTCATTCC GACGATGGCG GAGCTGAAGG TAAAGTCGAT GCTGCTGCCG AAAGTCAAGC GGATTTATTT GGCAAGTTTG GAAAAAGTCA GCATTGCCGC CTTTTTGAGC ACTTACCCGG ATGCGGAAAT CAAAACCTTT GACGACGGGA CAGGCAATTT AATTCAAAGC AGCAGCTATT TGGGCGATGA GTTTTCTGTA AACGGGACGA TCAAGCGGAA TTTTGCCCGG ATGATGATCG GAGATTGGAG CATCGCCAAA ACCCGTAATG CTTCCGACGA GCATTACACG ATATTCAAGG GTTTGAAAAA CATTATGGAC GACGGCCGCC GCAAGATGAC TTACCTGCCG CTGTTCGATG CGTCCGAACT GAAGGCGGGG GACGAAACGG GCGGÇACGGT GCGGATACTT TTGGGTTCGC CCGACAAGGA GATGAAGGAA ATTTCGGAAA AGGCGGCAAA AAACTTCAAC ATACAATATG TCGCACCGCA CCCCGCCAA ACCTACGGGC TTTCCGGCGT AACCACATTA AATTCGCCCT ATGTCATCGA AGACTATATT TTGCGCGAGA TTAAGAAAAA CCCGCATACG

C-Myc Peptide tag sequence
ATTTTGACAT TTGACGATAA AAATGAACAA AAACTGATCA GCGAAGAAGA

AGGTATGAAA TTTATACCTT TTTCAGCGGC GCGGCGTTGA CGATGAAGGA

TTTTCCCAAT GTGCACGTTT ACGCATTGAA ACCGGCTTCC CTTCCGGAAG

ATTATTGGCT CAAGCCGGTG TATGCCCTGT TTACCCAATC CGGCATCCCG

His 6 Tag CCTGAACCAT CACCACCATC ACCACTAATG A

#### DNA Sequence of FUS-01

ATGGAAAAC AAAATATTGC GGTTATACTT GCGCGCCAAA ACTCCAAAGG
ATTGCCATTA AAAAATCTCC GGAAAATGAA TGGCATATCA TTACTTGGTC
ATACAATTAA TGCTGCTATA TCATCAAAGT GTTTTGACCG CATAATTGTT
TCGACTGATG GCGGGTTAAT TGCAGAAGAA GCTAAAAATT TCGGTGCGA
AGTCGTCCTA CGCCCTGCAG AGCTGGCCTC CGATACAGCC AGCTCTATTT
CAGGTGTAAT ACATGCTTTA GAAACAATTG GCAGTAATTC CGGCACAGTA
ACCCTATTAC AACCAACCAG TCCATTACGC ACAGGGGCTC ATATTCGTGA
AGCTTTTTCT CTATTTGATG AGAAAAATAAA AGGATCCGTT GTCTCTGCAT
GCCCAATGGA GCATCATCCA CTAAAAACCC TGCTTCAAAAT CAATAATGGC
GAATATGCCC CCATGCGCCA TCTAAGCGAT TTGGAGCAGC CTCGCCAACA
ATTACCTCAG GCATTTAGGC CTAATGGTGC AATTTACATT AATGATACTG
CTTCACTAAT TGCAAATAAT TGTTTTTTA TCGCTCCAAC CAAACTTTAT

GlyGly

ACAGGCAGAA AACATTCTTA ATCACAAGGA AAGCGGTGGC

GGAAT TCTGGGCTTG AAAAAGGCTT GTTTGACCGT GTTGTGTTTG

GlyIle

ECORT

ATTGTTTTT GTTTCGGGAT ATTTTATACA TTTGACCGGG TAAATCATGG
GGAAAGGAAT GCGGTTTCCC TGCTGAAGGA CAAACTCTTC AATGAAGAGG
GGGAACCGGT CAATCTGATT TTCTGCTATA CCATATTGCA GATGAAGGTG
GCGGAAAGGA TTATGGCGCA GCATCCGGGG GAGCGGTTTT ATGTGGTGCT
GATGTCTGAA AACAGGAATG AAAAATACGA TTATTATTTC AAGCAGATAA
AGGATAAGGC GGAGCGGCG TATTTTTTCC ACCTGCCCTA CGGTTTGAAC
AAATCGTTTA ATTTCATTCC GACGATGGCG GAGCTGAAGG TAAAAGTCGAT
GCTGCTGCCG AAAGTCAAGC GGATTTATTT GGCAAGTTTG GAAAAAGTCA

GCATTGCCGC CTTTTTGAGC ACTTACCCGG ATGCGGAAAT CAAAACCTTT
GACGACGGGA CAGGCAATTT AATTCAAAGC AGCAGCTATT TGGGCGATGA

GACGACGGGA CAGGCAATTT AATTCAAAGC AGCAGCIAII IGGGCGAIGA

GTTTTCTGTA AACGGGACGA TCAAGCGGAA TTTTGCCCGG ATGATGATCG

GAGATTGGAG CATCGCCAAA ACCCGTAATG CTTCCGACGA GCATTACACG

ATATTCAAGG GTTTGAAAAA CATTATGGAC GACGGCCGCC GCAAGATGAC
TTACCTGCCG CTGTTCGATG CGTCCGAACT GAAGGCGGGG GACGAAACGG
GCGGCACGGT GCGGATACTT TTGGGTTCGC CCGACAAGGA GATGAAGGAA
ATTTCGGAAA AGGCGGCAAA AAACTTCAAC ATACAATATG TCGCACCGCA
CCCCCGCCAA ACCTACGGGC TTTCCGGCGT AACCACATTA AATTCGCCCT
ATGTCATCGA AGACTATATT TTGCGCGAGA TTAAGAAAAA CCCGCATACG
AGGTATGAAA TTTATACCTT TTTCAGCGGC GCGGCGTTGA CGATGAAGGA
TTTTCCCAAT GTGCACGTTT ACGCATTGAA ACCGGCTTCC CTTCCGGAAG
ATTATTGGCT CAAGCCGGTG TATGCCCTGT TTACCCAATC CGGCATCCCG

C-Myc Peptide tag sequence ATTTTGACAT TTGACGATAA AAATGAACAA AAACTGATCA GCGAAGAAGA

His 6 linker CCTGAACCAT CACCACCATC ACCACTAATG A

## **FUS-01/02 PROTEIN SEQUENCE**

MEKQNIAVIL ARQNSKGLPL KNLRKMNGIS LLGHTINAAI SSKCFDRIIV
STDGGLIAEE AKNFGVEVVL RPAELASDTA SSISGVIHAL ETIGSNSGTV
TLLQPTSPLR TGAHIREAFS LFDEKIKGSV VSACPMEHHP LKTLLQINNG
EYAPMRHLSD LEQPRQQLPQ AFRPNGAIYI NDTASLIANN CFFIAPTKLY
IMSHQDSIDI DTELDLQQAE NILNHKESGG GILSHGILGL KKACLTVLCL
IVFCFGIFYT FDRVNHGERN AVSLLKDKLF NEEGEPVNLI FCYTILQMKV
AERIMAQHPG ERFYVVLMSE NRNEKYDYYF KQIKDKAERA YFFHLPYGLN
KSFNFIPTMA ELKVKSMLLP KVKRIYLASL EKVSIAAFLS TYPDAEIKTF
DDGTGNLIQS SSYLGDEFSV NGTIKRNFAR MMIGDWSIAK TRNASDEHYT
IFKGLKNIMD DGRRKMTYLP LFDASELKAG DETGGTVRIL LGSPDKEMKE
ISEKAAKNFN IQYVAPHPRQ TYGLSGVTTL NSPYVIEDYI LREIKKNPHT
RYEIYTFFSG AALTMKDFPN VHVYALKPAS LPEDYWLKPV YALFTQSGIP
ILTFDDKNEQ KLISEEDLNH HHHHH

#### **FUS-01/04 PROTEIN SEQUENCE**

MEKQNIAVIL ARQNSKGLPL KNLRKMNGIS LLGHTINAAI SSKCFDRIIV
STDGGLIAEE AKNFGVEVVL RPAELASDTA SSISGVIHAL ETIGSNSGTV
TLLQPTSPLR TGAHIREAFS LFDEKIKGSV VSACPMEHHP LKTLLQINNG
EYAPMRHLSD LEQPRQQLPQ AFRPNGAIYI NDTASLIANN CFFIAPTKLY
IMSHQDSIDI DTELDLQQAE NILNHKESGG GILSGILGL KKACLTVLCL
IVFCFGIFYT FDRVNHGERN AVSLLKDKLF NEEGEPVNLI FCYTILQMKV
AERIMAQHPG ERFYVVLMSE NRNEKYDYYF KQIKDKAERA YFFHLPYGLN
KSFNFIPTMA ELKVKSMLLP KVKRIYLASL EKVSIAAFLS TYPDAEIKTF
DDGTGNLIQS SSYLGDEFSV NGTIKRNFAR MMIGDWSIAK TRNASDEHYT
IFKGLKNIMD DGRRKMTYLP LFDASELKAG DETGGTVRIL LGSPDKEMKE
ISEKAAKNFN IQYVAPHPRQ TYGLSGVTTL NSPYVIEDYI LREIKKNPHT
RYEIYTFFSG AALTMKDFPN VHVYALKPAS LPEDYWLKPV YALFTQSGIP
ILTFDDKNEQ KLISEEDLNH HHHHH

## FUS-01 PROTEIN SEQUENCE

MEKQNIAVIL ARQNSKGLPL KNLRKMNGIS LLGHTINAAI SSKCFDRIIV
STDGGLIAEE AKNFGVEVVL RPAELASDTA SSISGVIHAL ETIGSNSGTV
TLLQPTSPLR TGAHIREAFS LFDEKIKGSV VSACPMEHHP LKTLLQINNG
EYAPMRHLSD LEQPRQQLPQ AFRPNGAIYI NDTASLIANN CFFIAPTKLY
IMSHQDSIDI DTELDLQQAE NILNHKESGG GILGL KKACLTVLCL
IVFCFGIFYT FDRVNHGERN AVSLLKDKLF NEEGEPVNLI FCYTILQMKV
AERIMAQHPG ERFYVVLMSE NRNEKYDYYF KQIKDKAERA YFFHLPYGLN
KSFNFIPTMA ELKVKSMLLP KVKRIYLASL EKVSIAAFLS TYPDAEIKTF
DDGTGNLIQS SSYLGDEFSV NGTIKRNFAR MMIGDWSIAK TRNASDEHYT
IFKGLKNIMD DGRRKMTYLP LFDASELKAG DETGGTVRIL LGSPDKEMKE
ISEKAAKNFN IQYVAPHPRQ TYGLSGVTTL NSPYVIEDYI LREIKKNPHT
RYEIYTFFSG AALTMKDFPN VHVYALKPAS LPEDYWLKPV YALFTQSGIP